

**IN THE CLAIMS**

Please amend the claims as follows:

Claim 1. **(Withdrawn)** A method for forming a stator structure comprising the steps of:

(a) forming a first part having a first middle portion with a through hole, and M pieces of extending portions extending from said first middle portion;

(b) forming a second part having a second middle portion with a through hole, and N pieces of extending portions extending from said second middle portion;

(c) alternately bending said M pieces of extending portions of said first part toward a first direction and alternately bending said N pieces of extending portions of said second part toward a second direction opposite to said first direction, respectively; and

(d) correspondingly combining said first and second parts together to form said stator structure in which said bent extending portions of said first and second parts constitute a columnar portion of said stator structure for winding a coil thereon;

wherein M and N are even numbers not less than four, respectively.

Claim 2. **(Withdrawn)** The method according to claim 1 wherein said first and second parts are integrally formed by a magnetically conductive material, respectively.

Claim 3. **(Withdrawn)** The method according to claim 2 wherein said magnetically conductive material is silicon steel.

Claim 4. **(Withdrawn)** The method according to claim 1 wherein each of said extending portions of said first and second parts is a rectangular sheet.

Claim 5. **(Withdrawn)** The method according to claim 1 wherein each of said extending portions of said first and second parts is an arcuated sheet.

Claim 6. **(Withdrawn)** The method according to claim 5 wherein said first middle portion of said first part is a ring which is connected with said each arcuated sheet of said first part through a narrowed connective portion, and said second middle portion of said second part is a ring which is connected with said each arcuated sheet of said second part through a narrowed connective portion.

Claim 7. **(Withdrawn)** The method according to claim 1 wherein after said step (d), said method further includes a step (e) of coating said columnar portion of said stator structure with an insulating material.

Claim 8. **(Withdrawn)** The method according to claim 7 wherein said insulating material is an insulating tape.

Claim 9. **(Withdrawn)** The method according to claim 7 wherein after said step (e), said method further includes a step (f) of respectively bending residually unbent extending portions of said first and second parts toward said columnar portion for wrapping said coil in said stator structure.

Claim 10. **(Withdrawn)** The method according to claim 1 wherein residually unbent extending portions of said first and second parts are arcuated sidewall structures such that said coil is wrapped in said stator structure by said arcuated sidewall structures of said first and second

parts when said coil is wound on said columnar portion and said first and second parts are correspondingly combined together.

Claim 11. **(Withdrawn)** The method according to claim 10 wherein said coil is a self-adhesive coil.

Claim 12. **(Currently Amended)** A stator structure comprising:

a first part having a first middle portion with a through hole, and M pieces of extending portions extending from said first middle portion;

a second part having a second middle portion with a through hole, and N pieces of extending portions extending from said second middle portion;

wherein said M pieces of extending portions of said first part are alternately bent toward a first direction and said N pieces of extending portions of said second part are alternately bent toward a second direction opposite to said first ~~directon~~ direction, respectively, to constitute a columnar portion of said stator structure when said first and second parts are correspondingly combined together ~~for winding a coil thereon when said first and second parts are correspondingly combined together~~;

a coil wound around said columnar portion; and

~~where~~ wherein M and N are even numbers not less than four, respectively.

Claim 13. **(Original)** The stator structure according to claim 12 wherein said first and second parts are integrally formed by a magnetically conductive material, respectively.

Claim 14. **(Original)** The stator structure according to claim 13 wherein said magnetically conductive material is silicon steel.

Claim 15. **(Original)** The stator structure according to claim 12 wherein each of said extending portions of said first and second parts is a rectangular sheet.

Claim 16. **(Original)** The stator structure according to claim 12 wherein each of said extending portions of said first and second parts is an arcuated sheet.

Claim 17. **(Original)** The stator structure according to claim 16 wherein said first middle portion of said first part is a ring which is connected with said each arcuated sheet of said first part through a narrowed connective portion, and said second middle portion of said second part is a ring which is connected with said each arcuated sheet of said second part through a narrowed connective portion.

Claim 18. **(Currently Amended)** The stator structure according to claim 12 wherein residually unbent extending portions of said first and second parts are arcuated sidewall structures such that said coil is wrapped in said stator structure by said arcuated sidewall structures of said first and second parts when said coil is wound on said columnar portion and said first and second parts are correspondingly ~~combined~~ combined together.

Claim 19. **(Original)** The stator structure according to claim 18 wherein said coil is a self-adhesive coil.

Claim 20. **(Original)** The stator structure according to claim 12 wherein residually unbent extending portions of said first and second parts are bent toward said columnar portion for wrapping said coil in said stator structure.

Claim 21. **(Currently Amended)** A stator comprising:

a first part having a first middle portion with a through hole, and M pieces of extending portions extending from said first middle portion;

a second part having a second middle portion with a through hole, and N pieces of extending portions extending from said second middle portion;

wherein said M pieces of extending portions of said first part are alternately bent toward a first direction and said N pieces of extending portions of said second part are alternately bent toward a second direction opposite to said first ~~direction~~ direction, respectively, to constitute a columnar portion of said stator when said first and second parts are correspondingly combined together, where M and N are even numbers not less than four, respectively;

a coil wound around said columnar portion and wrapped in said first and second parts when said residually unbent extending portions of said first and second parts are bent toward said columnar portion; and

an insulator sheathed on said columnar portion for prohibiting the contact of said coil with said columnar portion.

Claim 22. **(Original)** A stator according to claim 21 wherein said insulator is an insulating tape.

### **REMARKS**

Claims 1-22 are pending in this application. Claims 1-11 have previously been withdrawn. Claim 12 has been amended to more particularly set forth the claimed subject matter. Claims 18 and 21 have been amended to correct certain typographical errors. No new matter has been added. Favorable reconsideration of this application, as presently amended, and in light of the following discussion, is respectfully requested.

#### **Allowable Subject Matter**

Applicants wish to thank the Examiner for indicating that claims 18-20 contain allowable subject matter.

#### **In the Drawings**

Fig. 3D has been amended in accordance with the Examiner's recommendation; the insulator tape is now clearly indicated as feature **215**.

#### **In the Specification**

The specification has been amended to correspond to the above amendment to Fig. 3D.

**Claims 12-17 have been rejected under 35 USC §102(b) as being anticipated by Chen, US Patent 5,859,487.**

Applicants respectfully traverse this rejection for the reasons discussed below.

The outstanding Action states that Fig. 5 of Chen shows two stator portions 21, 22 with bent extending portions to form a stator structure for coil. However, according to col. 3, line 40-47 for Fig. 4, "The stator structure 1, ..., consists of four pieces of waist posts 12, four pieces of upper salients 11, four pieces of lower salients 14, and a ring 13. Before twined by a pair of coils 3, the insulator 2 is sheathed on upper and lower salients (11 and 14) and waist posts 12." Similarly, the two stator structures 21, 22 in Fig. 5 are assembled with the insulator 2 first, and then the coils are wound thereon to increase area of magnetic conduction and improve the horsepower of the motor as shown in Fig. 4 (See col. 3, line 62-65).

Claim 12 of the present application has been amended to include the limitations of "when said first and second parts are correspondingly combined together" and "a coil wound around said columnar portion," which are not taught or disclosed by Chen. For these reasons, Applicants respectfully submit that independent claim 12 is allowable over Chen.

Since claims 13-20 depend either directly or indirectly from claim 12, Applicants submit that claims 13-20 are also allowable, for at least the reasons set forth above regarding claim 12.

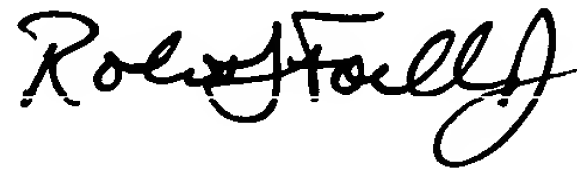
In view of the amendments to the specification and claims and the remarks set forth above distinguishing the claimed invention from the cited prior art references, Applicants submit that the Examiner's objections and rejections have been overcome. It is therefore respectfully requested that the Examiner withdraw the objections and rejections and allow the present claims.

If, for any reason, it is felt that this application is not now in condition for allowance, the Examiner is requested to contact Applicants' undersigned attorney at the telephone number indicated below to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees which may be due with respect to this paper, may be charged to Deposit Account No. 50-2394.

Respectfully submitted,

*IPS, Inc.*



Robert J. Forsell, Jr.  
Reg. No. 51,693

Customer No. **34003**  
5717 Colfax Avenue  
Alexandria, VA 22311  
Tel: (703) 379-9625  
Fax: (703) 379-9628  
RJF/km